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STATE OF COLORADO



1961

ANNUAL REPORT

DEPARTMENT OF NATURAL RESOURCES

COAL MINE INSPECTION DIVISION

STATE OF COLORADO



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DEPARTMENT OF NATURAL RESOURCES

COAL MINE INSPECTION DIVISION

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LETTER OF TRANSMITTAL

April 1, 1962

To His Excellency
Steve McNichols
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Division, Department of Natural Resources of Colorado, for the year ending December 31, 1961.

Respectfully,

THOMAS ALLEN
Chief Inspector of Coal Mines

EDWARD L. CLARK
Director of Natural Resources



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OBITUARY

FRED W. WHITESIDE, EM

Fred W. Whiteside of 356 Lafayette Street, Denver, Colorado, passed away on September 10, 1961, after a prolonged illness.

Mr. Whiteside was born in Chicago in 1875 and moved to Denver in 1879. He was the first engineering graduate of the University of Colorado, in 1897.

During the following years he was employed in an engineering capacity with the Denver Union Water Company, for the D&RG, the C. F. & I. Corporation and chief engineer for the Victor-American Fuel Company for 35 years.

Mr. Whiteside served as engineer with the State Board of Examiners for Coal Mine Officials for over 30 years and was secretary and treasurer of the Rocky Mountain Coal Mining Institute for 40 years.

He is survived by his wife Augusta, a daughter, Mrs. Mildred Gillaspy of San Francisco, Calif., a son, Fred, of Bloomfield, Conn., three grandchildren and three great-grandchildren.

PERSONNEL OF DEPARTMENT

CHIEF COAL MINE INSPECTOR - THOMAS ALLEN

Office - 318 State Services Building
Denver 3, Colorado
Telephone - AC 2-9911
Ext. 2616
Home - 1285 Albion Street
Denver 20
Telephone - FR 7-5572

DEPUTY INSPECTORS - (Counties within each district)

Dist. #1-DONALD HASKE - 4561 Perry St., Denver 12
Telephone - GRand 7-9295

(El Paso, Fremont, Jackson and Weld)

Dist. #2-OSCAR T. RICE - 919 Tascosa, Trinidad
Telephone - VIctor 6-2634

(Huerfano and Las Animas)

Dist. #3-GRANT McCONNELL - P.O. Box 385, New Castle
Telephone - New Castle 984-2370

(Garfield, Moffat, Pitkin, Rio Blanco and Routt)

Dist. #4-JOHN J. RODDY - 1404 White Avenue, Grand Junction
Telephone - CHapel 2-5915

(Delta, Gunnison, La Plata, Mesa and Montrose)

GENERAL OFFICE

| | |
|------------------------------------|---|
| Sr. Administrative Assistant | Veda Burford 720 Jersey St., Denver 20 FRemont 7-4317 |
| Sr. Account Clerk | Evelyn Miller 3357 W. 36th Avenue |
| Clerk-Stenographer | JoAnne Yurko 5502 Tejon Street |
| Clerk-Typist | Marjorie A. Thompson 1203 So. High Street |

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Thomas Allen, Chief Inspector - Denver 3

Fred W. Whiteside, E. M., Secretary - Deceased 9-10-61

Niles E. Grosvenor, E. M. Secretary, Golden-Appointed 12-8-61

Walter E. Gert, P.O. Box 31, Meeker - Resigned 1-24-61

Ralph Chatfield, Carbondale - Appointed 6-17-61

Frank Kolar, Jr., 2028 W. 9th Street, Longmont

Mathew J. Mlakar, P.O. Box 271, Somerset

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INTRODUCTORY COMMENTS

The production of coal in 1961 reached the peak within the last 10 years, with an increase of 76,120 tons over 1960. This increase is attributed to the expansive demand for electric power and the additional amount of coal used at the steel mills of the C. F. & I. Corporation in Pueblo, and coal shipped to the Columbia-Geneva Division of the U. S. Steel Corporation at Dragerton, Utah.

Recent publicity of future developments in Northwestern Colorado insures a substantial increase in the production of coal, within the very near future.

The five fatalities in 1961 occurred at the frequency rates of 1.35 per million tons of coal produced and 2.25 per million man-hours of exposure. There was one man killed in each 332 men employed. The number of compensable accidents decreased, but one man in each 21 employed was injured. A decrease in accidents from falls of roof and face.

The inspectors of this department made a record number of inspections of almost 50% more than the minimum required, and continuous check inspections for compliance of recommendations made. Mines failing to correct unsafe conditions are closed for production until released by the department.

The State Coal Mining Laws require that surface caves and shafts into abandoned mines shall be fenced or filled in. In the opinion of the Chief Inspector, fencing is insufficient, and such openings must be filled in to permanently eliminate any danger to persons or stock.

During the past year there have been over 36 old openings filled in by bulldozers or other means. The inspectors have spent much time in locating owners of such properties, and some of the county commissioners have assisted in labor and equipment necessary to do this work. There are many more throughout the state, which will receive attention when located.

The State Legislature appropriated \$1,500 to be used for platting maps that will show the extent of underground workings of all abandoned and active coal mines in the state. The work will extend the maps from 1938 to date. This is highly important for the

information of the numerous agencies that weekly consult the records of this department for extensive future developments that include housing projects and industrial plants.

The Columbia-Geneva Division of the U.S. Steel Corporation purchased the Somerset Mine in Gunnison County from the Minerals Development Corporation, the latter part of 1960, the change in operation effective January 1, 1961. A. M. Morrison is superintendent of the mine.

The C. F. & I. Corporation closed and abandoned the Frederick Mine in Las Animas County in May, 1961, with no production after December, 1960. This mine was in operation from 1907, producing 20,522,962 tons of coal within 54 consecutive years. The Frederick covered the largest underground area of any mine in the State. It was among the first mines in the State to rock dust throughout the mine, and to employ the use of bolts as a roof control. The safety record of the employees was above average and this mine was highest on the Honor Roll for seven consecutive years.

AMENDMENTS TO THE COAL MINING LAWS - Forty-second General Assembly. Section 92 (c) - Surface structures within 100 feet of mine openings to be of fireproof construction, or fire doors shall be erected.

Section 131 - Abolishment of "Cash Fund" - This department to be entirely supported by the General Fund, into which all collections of money are deposited. Licenses to be issued by this office; and stipulated that no license is to be issued until all delinquent amounts are paid in full.

RECIPROCAL AGREEMENT WITH THE STATE OF UTAH - After many years of effort, the State Industrial Commission of Utah approved an exchange in recognition of certificates of equal rating with the State of Colorado. This became effective December 18, 1961. The other reciprocal states at this time are Wyoming and New Mexico.

SUMMARY OF FIELD WORK

| | |
|--|-----|
| Number of Inspections | 755 |
| Number of Check Inspections | 153 |
| Examinations for Shot Firers | 33 |
| Serious accidents investigated | 13 |
| Complaints investigated | 29 |
| Mines closed for legal violations & non-compliance with recommendations made | 20 |
| Suspension of officials certificates | 8 |

| <u>HONOR ROLL FOR 1961</u> - 50,000 or more man-hours per injury | | | | | |
|--|-------------------|--------|-------|-----------|----------------------|
| Mine | Company | County | Fatal | Non-Fatal | Man-Hours Per Injury |
| Washington | Clayton Coal | Weld | | 0 | 104,324 |
| Allen | C. F. & I. Corp. | Las A. | 1 | 7 | 94,800 |
| Bo. Valley #3 | Bo. Valley Coal | Weld | | 1 | 87,933 |
| Osage Strip | P. & M. Coal | Routt | | 1 | 57,939 |
| Eagle | Imperial Coal | Weld | | 2 | 53,300 |
| Sterling | McNeil Coal Corp. | Weld | | 0 | 50,215 |

HONORABLE MENTION - 20,000 to 50,000 man-hours per injury

| | | | | | |
|----------------|------------------------|--------------|----------|---|--------|
| Dutch Creek | Mid-Cont. Coal & Coke | Pitkin | 1 | 2 | 47,092 |
| Lincoln | Clayton Coal | Weld | | 1 | 46,104 |
| Somerset | Columbia | Geneva Steel | Gunnison | 2 | 36,324 |
| ThompCreek #2 | Thomp.Crk. Coal & Coke | Pitkin | | 1 | 35,096 |
| Pioneer Can#2 | The Corley Co. | Frement | | 1 | 33,925 |
| Edna Strip | Edna Coal | Routt | | 2 | 24,861 |
| Calumet #2 | Delcarbon Coal | Huerfano | | 1 | 24,104 |
| Thomp. Creek#1 | Thomp.Crk. Coal & Coke | Pitkin | | 7 | 21,631 |
| Imperial | Imperial Coal | Weld | | 0 | 21,508 |
| King | Juanita Coal & Coke | Delta | | 1 | 20,606 |

FINANCIAL STATEMENT FOR THE CALENDAR YEAR

RECEIPTS

| | |
|---|------------------|
| Coal Tax | \$24,491.97 |
| License Fees | 4,460.00 |
| Misc.-Sale of Law Books & Old Equipment | 60.50 |
| General Fund Appropriation | <u>38,043.07</u> |
| Total | \$67,055.54 |

EXPENDITURES

| | |
|---------------------------------------|--------------|
| Salaries - Field & Office | 55,020.14 |
| Travel - Hotel, Meals, Gasoline, etc. | 6,311.80 |
| Workmen's Compensation | 1,778.00 |
| Equipment - Field & Office | 551.57 |
| Telephone & Telegraph | 1,497.30 |
| Supplies - Field & Office | 702.58 |
| Postage & Express | 366.75 |
| Car Insurance, Surety Bonds | 274.35 |
| Printing | 243.20 |
| Special Investigations & Transcripts | 118.45 |
| Blue Prints, Subscriptions & Storage | 111.13 |
| Maintenance & Repair of Equipment | <u>80.27</u> |
| Total | \$67,055.54 |

GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1961

MINES REPORTING PRODUCTION - PRODUCTION IN SHORT TONS

GRADES SIZES

| | | | |
|----------------|-----------|----------|-----------|
| Bituminous | 2,797,218 | Mine Run | 1,002,997 |
| Sub-Bituminous | 903,474 | Lump | 177,241 |
| | | Nut | 61,398 |
| | | Egg | 109,742 |

TONNAGE BY MINING METHODS

MINED BY - Electric undercutting machines

Solid pick

LOADED BY - Mechanically, using no or very little hand labor

Hand-loaded onto mechanical loaders

Hand-loaded into pit cars

CUT AND LOADED BY CONTINUOUS MINING MACHINES

STRIPPED - OPEN PITS

SHIPMENT AND DISPOSAL Direct to Power Plants by Conveyors

| | | | |
|-----------------|-----------|-------------------------|---------|
| Shipped by rail | 2,613,843 | Cameo to Public Service | 103,874 |
|-----------------|-----------|-------------------------|---------|

| | | | |
|------------------|---------|----------------------|---------|
| Shipped by truck | 976,512 | Shipped out of State | 818,822 |
|------------------|---------|----------------------|---------|

| | | | |
|--------------------------------------|-------|--|--|
| Used for power and heat at the mines | 6,463 | | |
|--------------------------------------|-------|--|--|

| | | | | |
|--------------------------------------|-------------|-------|---------|-----|
| <u>MEN EMPLOYED</u> (Average number) | Underground | 1,223 | Surface | 287 |
|--------------------------------------|-------------|-------|---------|-----|

| | | | | |
|---|--|--|--------|-----|
| <u> DAYS WORKED</u> (Average number per mine) | | | Strips | 147 |
|---|--|--|--------|-----|

DAILY PRODUCTION PER MINER

DAILY CAPACITY OF ALL MINES (as reported)

UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT - See pages 22 & 23

MINING MACHINERY - Electric Undercutting 181 Drills 259

| | | | |
|-------------------|---|----------|---|
| Electric Shearing | 1 | Stoppers | 8 |
|-------------------|---|----------|---|

| | | | |
|-----------------------|----|-------------|----|
| Compressed Air Drills | 29 | Combination | 20 |
|-----------------------|----|-------------|----|

| | | |
|--------------------|---------------|-----------------------|
| MECHANICAL LOADERS | - Shakers 103 | Mainline conveyors 29 |
| | Mobile 69 | Chain conveyors 27 |

| | |
|--------------------|---|
| Portable conveyors | 3 |
|--------------------|---|

CONTINUOUS MINING MACHINES - Undercutting and loading - 24

HAULAGE MACHINERY - Locomotives: Electric trolley 76 Electric battery 37

Hoists : Electric 109

Shuttle cars 110

Electric cap 2,487

STRIP MACHINERY & EQUIPMENT

| | | | | | |
|----------------------------|---------|--------------------|-----------------|---------------|---------------|
| Bulldozers | 12 | Drag lines | 6 | Motor graders | 1 |
| Caterpillars | 7 | Jackhammers | 8 | Scarifiers | 4 |
| Compressors | 12 | Drills | 8 | Tractors | 7 |
| Loaders | 5 | Power shovels | 5 | Trucks | 19 |
| <u>EXPLOSIVES</u> (Pounds) | | <u>Permissible</u> | <u>Dynamite</u> | <u>Airdox</u> | <u>Others</u> |
| Underground Mines | 451,842 | 15 | 60 mines | 2 mines | |
| Strip Mines | 366,800 | 5,000 | | | |
| | 818,642 | 5,015 | | | |

SURFACE & MISCELLANEOUS

| | | | | | |
|------------------------------|-----|----------------|----|---------------------------|----|
| Hoists: Gas | 13 | Steam | 2 | Electric | 53 |
| Tipplers: Gravity | 43 | Mechanical | 63 | | |
| Ventilation fans: Exhaust | 69 | Force | 27 | | |
| Coal washing plants | 4 | Steam Plants | 7 | Box car loaders | 28 |
| Pumps: Electric | 195 | Compressed air | 6 | Bath house | 21 |
| Air Compressors: Underground | 33 | Surface | 17 | Rock dusting machines | 49 |
| Telephones | 166 | | | Battery charging stations | 18 |
| Gravity Planes | 1 | | | Aerial trams | 1 |

SAFETY EQUIPMENT

Self-rescuers 452

Inhalators 47

GENERAL INFORMATION (As Reported)

| | | | | |
|---------------------------------|----------------|---------------------|-----------|-------------|
| Shaft Mines 5 | Rock slopes 16 | Rock tunnels 5 | Drifts 66 | Coal slopes |
| Number of mines: On railroads | 19 | Roof-bolted 9 | | |
| Tons of coal chemically treated | 181,487 | Tons of washed coal | 14,189 | |

ACCIDENTS - See page 24

| | |
|---------------|--------------|
| Total number: | Fatalities 5 |
| | Non-Fatal 76 |

Oxygen breathing apparatus: McCaa 27
Chemox 24

Total 451,857
669,338 1,121,195

DIRECTORY

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|--------------------------|---------------------|----------------------|----------|----------|
| Alvidrez & Sons | Florence | Black Knight #3 | Same | Fremont |
| Annex Coal | " | Annex #2 | " | " |
| Aragon, Ricardo F. | Trinidad | Anchor #2 | " | Las A. |
| Baldy Coal | " | Baldy #2 | " | " " |
| Barstow, Aul & Peterson | Palisade | Blue Flame | " | Mesa |
| Bear Coal | Somerset | Bear | Same | Gunnison |
| Beer Coal & Const., Inc. | Florence | Beer Strip | " | Fremont |
| Bendetti, H. & L. | Glenwood Spgs. | New South Canyon | " | Garfield |
| Berwind Canyon Coal | Trinidad | Berwind Canyon | " | Las A. |
| Bisulco Coal | Aguilar | Bisulco | " | " " |
| Black Beauty Coal | Walsenburg | Black Beauty | Same | Huerfano |
| Blue Blaze Coal | " | Black Hawk #1 | " | " |
| Blue Ribbon Coal | Cedaredge | Blue Ribbon | " | Delta |
| Boulder Valley Coal | Denver (2) | Boulder Valley #3 | Dacono | Weld |
| Bowman's Coal | Trinidad | Bowman's | Same | Las A. |
| Brodhead Coal | Trinidad | Brodhead #4-A | Same | Las A. |
| Brooks, Ira T. | Cedaredge | Green Valley #2 | " | Delta |
| C. F. & I. Corp. | Pueblo | Allen, E. & W. Port. | Weston | Las A. |
| Caldirola Fuel | Florence | Caldirola #2 | Same | Fremont |
| Can. Blk. Diam. Coal | " | Can. Blk. Diam. | " | " |
| Canon National Coal | Florence | Canon National | Same | Fremont |
| Canon Oak Creek Coal | Canon City | Canon Oak Creek | " | " |
| Cedar Canon Coal | Florence | Cedar Canon | " | " |
| Champion Coal Mng. | Somerset | Hawk's Nest | " | Gunnison |
| Clayton Coal | Denver (2) | Lincoln | Erie | Weld |
| Clayton Coal | Denver (2) | Washington | Erie | Weld |
| Coal Crk. Can. Mng. | Florence | Coal Creek Canon | Same | Fremont |
| Colowyo Coal | Denver (2) | Red Wing | Craig | Moffat |
| Columbia-Geneva Div. | Dragerton, Utah | Somerset | Somerset | Gunnison |
| U. S. Steel Corp. | San Francisco, Cal. | | | |

RAILROADS - OPENINGS - SEAMS

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAM | | |
|--------------------|-------|------------|-------------|------------|--------------------|---------|-------|-----|---------|
| | | | Shaft Depth | Rock Slope | Rock Tunnel Length | Drift | Ft. | In. | Pitch % |
| C. Alvidrez | | 20 | | | | Yes | 5 | | 3° |
| Nickie Rocchio | | 20 | | | | Yes | 6 | | |
| R. F. Aragon | | 3 | | | | | 5 | 6 | |
| D. A. Johnson | | 6 | | | | Yes | 5 | 6 | |
| Willis S. Barstow | | 20 | | | | Yes | 5 | 6 | 3% |
| William A. Bear | D&RG | 500 | | | 300 | | 8 | | |
| Lloyd J. Beer | | 150 | | STRIP | | | 4 | | 7% |
| Henry Bendetti | | 15 | | | 30 | | 5 | | 57° |
| Alfred Griego | | 10 | | | | Yes | 4 | 10 | |
| Sam Gonzales | | 6 | | | | Yes | 4 | | |
| Mariano Pesina | | 6 | | | | Yes | 4 | | 2% |
| Albert Amiday | | 10 | | | | | 2 | 6 | 3° |
| Ed Marah | | 50 | | | | Yes | 6 | | 5% |
| Thomas Harris | U. P. | 1,000 | 245 | | | | 7 | | |
| John Bowman | | 3 | | | | Yes | 2 | 10 | |
| Sam Vasquez | | 15 | | | | Yes | 3 | 10 | 3% |
| Ira T. Brooks | | 50 | 200 | | | | 6 | | 3% |
| L. W. Ingles | C&W | 5,000 | | 1,578 (E) | | Yes (W) | 5 | | 2-30% |
| Fred Del Duca | | 50 | 480 | | | | 4 | 8 | 5% |
| Frank Yellico | | 75 | 400 | | | | 6 | 7 | 6% |
| Raymond Jermance | | 100 | | | | | 5 | | |
| J. E. Griffin | | 5 | | | | Yes | 4 | | 18° |
| Charles Farrington | | 100 | | | | Yes | 6 | | 2% |
| Ralph Audin | D&RG | 300 | 300 | | | | 7 | | 2% |
| William Ferguson | U. P. | 1,500 | | 1,800 | | | 9 | | |
| William Ferguson | U. P. | 1,200 | 430 | | | | 9 | | |
| John A. Javernick | | 50 | | | | Yes | 4 | 6 | 5° |
| J. Arthur Haske | | 900 | 125 | | | | 23 | | 3-6% |
| A. M. Morrison | | 996 | | | | | (B-22 | | |
| | | | | | | | (C- 7 | | 4-7% |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|--------------------------|----------------|-------------------|----------|------------|
| Corley Co., The | Colorado Spgs. | Corley Strip | Florence | Fremont |
| Corley Co., The | Colorado Spgs. | Pioneer Canon #2 | " | " |
| de la Rosa, Lorenzo | Trinidad | Berwind #4 | Same | Las A. |
| Delcarbon Coal | Walsenburg | Calumet #2 | " | Huerfano |
| Di Marco, L., & Alverado | Trinidad | Starkville #7 | " | Las A. |
| Double Dick Coal | Florence | Double Dick | Same | Fremont |
| Dry Creek Coal | Hayden | Cardinal | " | Routt |
| Eagle Head Coal | Grand Jct. | McGinley | " | Mesa |
| Edna Coal | Denver (2) | Navajo Strip | Nucla | Montrose |
| Ellis Coal | Somerset | Black Beauty | Same | Gunnison |
| Emmons Bros. Coal | Paonia | Emmons | Same | Delta |
| Fogg, Lyndon H. | Cedaredge | Red Canon #1 | " | Delta |
| Fontanari, R. & A. | Clifton | Go-Boy | " | Mesa |
| Four Mile Coal | Glenwood Spgs. | Four Mile | " | Garfield |
| Franceville Coal | Colorado Spgs. | Franceville Strip | " | El Paso |
| Golden Quality Coal | Canon City | Golden Qual. #4 | Same | Fremont |
| Grey Creek Coal | Trinidad | Grey Creek #4 | " | Las A. |
| Guadagnoli Bros. C. | " | Engleville | " | " " |
| Haas, William, Jr. | Rifle | Black Raven | " | Garfield |
| Hay Gulch Coal | Hesperus | Hay Gulch #2 | " | La Plata |
| Hayden Coal | Hayden | Babson | Same | Routt |
| Hesperus Coal | Hesperus | Hesperus #4 | " | La Plata |
| Hunt, William M. | Durango | Burnwell #1 | " | " " |
| Imperial Coal | Denver (2) | Eagle | Erie | Weld |
| Imperial Coal | " " | Imperial | " | " |
| Iuppa, Albert & Son | Trinidad | Starkville #4 | Same | Las A. |
| Jenkins & Mathis C. | Meeker | Rienau | " | Rio Blanco |
| Joe's Coal | Raton, N. M. | Delagua #4 | Delagua | Las A. |
| Juanita Coal & Coke | Bowie | King | " | Delta |
| Kerr Coal | Cameo | Cameo | " | Mesa |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAM | | |
|--------------------|-------|------------|-------------|------------|--------------------|-------|------|-----|-----------|
| | | | Shaft Depth | Rock Slope | Rock Tunnel Length | Drift | Ft. | In. | Pitch % - |
| Thomas E. Shelnutt | | 200 | | STRIP | | | 3 | 6 | 8% |
| Thomas E. Shelnutt | | 600 | | | | Yes | 8 | | 8% |
| L. de la Rosa | | 9 | | | | Yes | 4 | 6 | |
| George Sudar | D&RG | 100 | | 700 | | | 4 | 2 | 4% |
| L. DiMarco | | 10 | | | | Yes | 4 | | |
| Joe Rohar | | 100 | | 400 | | | 5 | 11 | |
| E. R. Todd | | 400 | | | | Yes | 12 | | 7% |
| B. A. Nichols | | 20 | | | | Yes | 7 | | |
| A. R. Ross | | 500 | | STRIP | | | 5 | 6 | 5% |
| Ellis Axelson | | 85 | | | | Yes | 10 | 6 | |
| John T. Emmons | | 40 | | | | Yes | 7 | 6 | 6% |
| Lyndon H. Fogg | | 30 | | 350 | | | 4 | 6 | 6% |
| R. Fontanari | | 10 | | | | | 4 | 6 | 5% |
| C. A. Betz | | 20 | | 350 | | | 7-8 | | 40° |
| Lee Gordley | | 50 | | STRIP | | | 6 | 6 | |
| Dominic Carestia | | 65 | | | | Yes | 6 | 6 | 3% |
| Lawrence Rivera | | 8 | | | | Yes | 3 | 4 | |
| Chas. Guadangoli | | 7 | | | | Yes | 9 | | |
| Wm. Haas, Jr. | | 15 | | | | Yes | 22 | | 5-7% |
| Wm. C. Hunt | | 10 | | | | Yes | 6 | | 3° |
| S. J. Prewitt | | 20 | | | | Yes | 10 | 6 | 14% |
| Joe De Luzio | | 10 | | | | Yes | 9 | 1 | 4% |
| Oren A. Pilcher | | 20 | | | | Yes | 6 | 6 | |
| Frank Kolar | U. P. | 1,500 | 370 | | | | 9 | | 1½% |
| Frank Kolar | U. P. | 900 | 300 | | | | 10 | 6 | |
| Albert Iuppa, Jr. | | 36 | | 300 | | | 5 | | |
| Wm. Jenkins, Jr. | | 30 | | | | Yes | 20 | | 18° |
| Joe Sonchar, Jr. | | 30 | | | | | 5 | 6 | |
| Robert F. Bowie | D&RG | 300 | | | | | 15 | | 7% |
| H. J. Kissell | D&RG | 500 | | | 950 | Yes | 6 | | 3° |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|----------------------|-----------------|-------------------|-----------|----------|
| King Coal | Hesperus | King | Same | La Plata |
| Liberty Mining | Canon City | Can. Liberty #3 | " | Fremont |
| Lobato, Fidel | Durango | Blue Flame | " | La Plata |
| Major Coal | Walsenburg | Major #3 | " | Huerfano |
| Major Coal | " | Pioneer | " | " |
| Martinez, Albert | Cokedale | Martinez | Same | Las A. |
| Maschio Coal | Raton, N. M. | Hastings #3 | Hastings | " " |
| Mathews, John | Oak Creek | Johnnie's | Same | Routt |
| McNeil Coal Corp. | Denver (2) | Sterling | Dacono | Weld |
| Mid-Continent C. &C. | Carbondale | Dutch Creek | Same | Pitkin |
| Montoya Coal | Trinidad | Aguilar-Imperial | Same | Las A. |
| Montoya, Ben & Sam | Valdez | Montoya #3 | " | " " |
| Morning Glory Coal | Walsenburg | Morning Glory | " | Huerfano |
| Moschetti, N. J. | Canon City | Canon Zenith #2 | " | Fremont |
| New Castle Coal | New Castle | New Castle-Vulcan | " | Garfield |
| North Fork Coal | Denver (2) | Edwards | Somerset | Gunnison |
| Nu-Mine Coal | Gunnison | Nu-Mine #2 | Same | " |
| P & M Coal Mng. | Steamboat Spgs. | Edna Strip | Oak Creek | Routt |
| P & M Coal Mng. | " " | Osage Strip | Same | " |
| Pantazes, Pete | Aguilar | Prosperity #2 | " | Las A. |
| Paterson, Mack R. | Fruita | Hy-Grade | Same | Mesa |
| Peacock Coal | Durango | Peacock | " | La Plata |
| Peacock Coal | Trinidad | Peacock | " | Las A. |
| Peerless Coal | Durango | Peerless | " | La Plata |
| Phillips, H. B. | Palisade | Gearhart | " | Mesa |
| Pilcher, Oren A. | Mancos | Coal King #2 | Same | La Plata |
| Prendergast & Son | New Castle | Rex | " | Garfield |
| Rapson Coal | Walsenburg | Rapson #2 | " | Las A. |
| Rasmussen, William | Hesperus | Rasmussen | " | La Plata |
| Red Ash Coal | Walsenburg | Maitland #1 | " | Huerfano |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAM | | |
|-------------------------|-------|------------|-------------|------------|--------------------|-------|------|-----|-------------------|
| | | | Shaft Depth | Rock Slope | Rock Tunnel Length | Drift | Ft. | In. | Pitch % - ° |
| Irvin A. Smith | | 40 | | | | Yes | 6 | | 5% |
| Frank Adamic | | 50 | | | | | 3 | 4 | 6% |
| Fidel Lobato | | 10 | | | | | 6 | 6 | 2% |
| Louis Bellotti | | 25 | | | 435 | | 3 | 8 | 25% |
| Louis Bellotti | | 25 | | | | | 5 | 3 | |
| Albert Martinez | | 2 | | | | | 2 | 4 | |
| Adolph Maschio | | 15 | | | | Yes | 7 | | |
| John Mathews | | 5 | | | | | 4 | 4 | 4 $\frac{1}{2}$ ° |
| Albert W. Newcomb U. P. | | 550 | | | 358 | | 7 | 11 | |
| Ed Selan | | 2,000 | | | | Yes | 6 | 8 | 14° |
| Leo Montoya, Jr. | | 25 | | | | Yes | 6 | | 2% |
| Sam U. Montoya | | 3 | | | | Yes | 8 | | |
| G. M. Turner | D&RG | 175 | | | | Yes | 4 | 6 | |
| N. J. Moschetti | | 20 | | | | | 3 | 6 | 5-7% |
| Willis Davis | | 50 | | | 1,400 | | 7 | | 48° |
| C. E. Pauley | D&RG | 150 | | | | Yes | 6 | | |
| Joseph E. Partch | | 150 | | | | Yes | 6 | | 3% |
| G. A. Hays | D&RG | 2,500 | | STRIP | | | 5-6 | | |
| J. F. Lake | D&RG | 1,400 | | STRIP | | | 8 | | 34% |
| Pete Pantazes | | 4 | | | | | 2 | 6 | 7° |
| Mack R. Paterson | | 15 | | | | | 3 | 6 | 15% |
| G. M. Gale | | 15 | | | | Yes | 6 | | 2% |
| Eugene Lopez | | 25 | | | | | 6 | | |
| Everett Bixler | | 4 | | | | Yes | 5 | | |
| H. B. Phillips | | 35 | | | | Yes | 5 | 3 | |
| Oren A. Pilcher | | 10 | | | | Yes | 6 | 6 | |
| F. L. Prendergast | | 20 | | | | Yes | 7 | 9 | 52° |
| James Christy | | 25 | | | 2,200 | | 5 | | 12% |
| Wm. Rasmussen | | 15 | | | | Yes | 5 | 6 | 4% |
| Clarence Clair | | 75 | | | | Yes | 3 | 6 | 5% |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|---------------------------|--------------|---------------------|------------|------------|
| Red Ash Coal | Walsenburg | Maitland #2 | Same | Huerfano |
| Red Glow Coal | Aguilar | Red Glow | " | Las A. |
| Rex Carbon Fuel | Florence | Rex Carbon | " | Fremont |
| Roadside Coal | Palisade | Roadside(RiverView) | " | Mesa |
| Routt Mining Corp. | Oak Creek | Keystone | " | Routt |
| Rugby Coal | Trinidad | Rugby #6 | Same | Huerfano |
| Silengo Coal | Canon City | Canon Monarch #4 | " | Fremont |
| Smith, A. G. | Gunnison | Baldwin | " | Gunnison |
| Smith Coal | Trinidad | Berwind #5 | " | Las A. |
| Staples, S. L. , Jr. | Gunnison | Ohio Creek #2 | " | Gunnison |
| Staley, C. &Gordon, C. | Vernal, Utah | White River | Rangley | Rio Blanco |
| States Coal | Cedaredge | Top | Same | Delta |
| Strainer Coal | Canon City | Can. Wolf Crk. #2 | " | Fremont |
| Sullivan Coal | Oak Creek | Apex | " | Routt |
| Sun Coal | Hayden | Sun | " | " |
| Taylor, Sam | Walsenburg | Taylor | Craig | Moffat |
| Thompson Crk. C & C Corp. | Denver (3) | Thompson Crk. #1 | Carbondale | Pitkin |
| Thompson Crk. C&C Corp. | " " | " #2 | " | " |
| Thompson Crk. C&C Corp | " " | " #3 | " | " |
| Tolley, C. A. & E. | New Castle | Harvey Gap #3 | Same | Garfield |
| Tomahawk Coal | Delta | Tomahawk | Same | Delta |
| Twin Pines Coal | Canon City | Twin Pines | " | Fremont |
| Vento Coal | Florence | Vento | " | " |
| Victory Coal | Durango | Victory #3 | " | La Plata |
| Vista Coal | Walsenburg | Gordon | " | Huerfano |
| Wise Hill Coal | Craig | Wise Hill Strip | Same | Moffat |
| Wright Fuel | Hesperus | Wright #1 | " | La Plata |
| Zellitti, F., N., & C. | Durango | Morning Star | " | " " |
| Zufelt, Robert L. | Hesperus | Burnwell #2 | " | " " |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAM | | |
|---------------------|-------|------------|-------------|------------|--------------------|-------|------|-----|-------------|
| | | | Shaft Depth | Rock Slope | Rock Tunnel Length | Drift | Ft. | In. | Pitch % - ° |
| Clarence Clair | | 70 | | | | Yes | 3 | 6 | 5% |
| Clifford Smith | | 2 | | | | Yes | 3 | 8 | 7% |
| Frank Sacchetta | | 60 | | 300 | | | 3 | 10 | 12% |
| Medley Gearhart | | 30 | | | | Yes | 6 | | 5% |
| Carl Steele | D&RG | 50 | | | | | 5 | 10 | 17% |
| Mike Nicola | | 12 | | 150 | | | 4 | | 13° |
| Charles L. Silengo | | 75 | | | | Yes | 5 | 6 | 10% |
| A. G. Smith | | 10 | | | | Yes | 6 | | |
| Frank Smith | | 8 | | | | Yes | 6 | 6 | |
| S. L. Staples, Jr. | | 10 | | | | Yes | 5 | | 5% |
| Raymond C. Gordon | | 30 | | | | Yes | 7 | 10 | 9° |
| Welland W. States | | 60 | | 180 | | | 7 | | 4-10% |
| Anton Strainer, Jr. | | 30 | | | | Yes | 6 | 6 | 3% |
| Robert L. Sullivan | | 12 | | | | Yes | 4 | 10 | 7% |
| Thomas E. Barton | | 6 | | | | Yes | 6 | 6 | 15% |
| Angelo Boscia | | 10 | | | | Yes | 10 | 8 | 21% |
| Andrew Allan | | 500 | | | | Yes | 7 | | 30° |
| Andrew Allan | | 125 | | | | Yes | 7 | | 30° |
| Andrew Allan | | 250 | | | | Yes | 9 | | |
| C. A. Tolley | | 20 | | | | Yes | 7 | | 45° |
| Gene Yellico | | 30 | | 200 | | | 11 | | 4% |
| Budgie C. Fazzino | | 45 | | | | Yes | 5 | | 4% |
| Tony Vento | | 100 | | | | | 5 | | |
| William Gerard | | 100 | | | | Yes | 6 | | |
| James Ludvik | D&RG | 100 | | | | | 4 | | |
| Angelo Boscia | | 100 | | STRIP | | | 15 | | |
| Glen Wright | | 16 | | | | Yes | 5 | | 3% |
| Frank Zellitti, Jr. | | 20 | | | | Yes | 5 | 10 | 10° |
| Robert L. Zufelt | | 6 | | | | Yes | 6 | | 3° |

REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

| COUNTY MINE | COMPANY OR OPERATOR | No. Men Average | Total Days | TONNAGE | ACCIDENTS | |
|---------------------|---------------------------|--------------------|---------------|---------------|-----------|----------|
| | | | | | Fatal | Non-Fat. |
| <u>DELTA</u> | | | | | | |
| Blue Ribbon | Blue Ribbon Coal | 4 | 108 | 2,590 | | |
| Emmons | Emmons Bros Coal | 6 | 226 | 7,985 | | |
| Green Valley #2 | Brooks, Ira T. | 4 | 192 | 7,326 | 1 | 1 |
| King | Juanita Coal & Coke | 22 | 111 | 29,905 | | |
| Red Canon #1 | Fogg, Lyndon H. | 4 | 203 | 4,568 | | |
| Tomahawk | Tomahawk Coal | 3 | 123 | 2,308 | | |
| Top | States Coal | 3 | 135 | 2,362 | | |
| TOTALS - 7 | | 46 | 1,098 | 57,044 | 1 | 2 |
| <u>EL PASO</u> | | | | | | |
| Franceville Strip | Franceville Coal | 3 | 146 | 3,293 | - | - |
| TOTALS - 1 | | 3 | 146 | 3,293 | - | - |
| <u>FREMONT</u> | | | | | | |
| Annex #2 | Annex Coal | 3 | 173 | 6,794 | | |
| Beer Strip | Beer Coal & Constr., Inc. | 3 | 232 | 29,120 | | |
| Black Knight #3 | Alvidrez & Sons | 2 | 307 | 5,675 | | |
| Caldirola #2 | Caldirola Fuel | 4 | 229 | 7,686 | | |
| Canon Black Diamond | Canon Black Diamond Coal | 5 | 214 | 20,755 | | |
| Canon Liberty #3 | Liberty Mining | 4 | 184 | 6,095 | | |
| Canon Monarch #4 | Silengo Coal | 6 | 250 | 20,932 | | |
| Canon National | Canon National Coal | 6 | 258 | 15,168 | | |
| Canon Oak Creek | Canon Oak Creek Coal | 2 | 73 | 292 | | |
| Canon Wolf Creek #2 | Strainer Coal | 8 | 169 | 5,959 | | |
| Canon Zenith #2 | Moschetti, N. J. | 4 | 195 | 2,771 | | |
| Cedar Canon | Cedar Canon Coal | 7 | 243 | 18,219 | | |

| | | | | | |
|--------------------|-----------------------------------|-----|-------|---------|----|
| Coal Creek Canon | Coal Creek Canon Mining | 5 | 235 | 11,465 | |
| Corley Strip | Corley Company, The | 2 | 60 | 4,503 | |
| Double Dick | Double Dick Coal | 5 | 240 | 7,502 | |
| Golden Quality #4 | Golden Quality Coal | 4 | 238 | 15,351 | |
| Pioneer Canon #2 | Corley Company, The | 19 | 225 | 92,567 | 1 |
| Rex Carbon | Rex Carbon Fuel | 4 | 189 | 8,920 | |
| Twin Pines | Twin Pines Coal | 5 | 261 | 11,908 | |
| Vento | Vento Coal | 7 | 222 | 17,672 | 1 |
| <u>TOTALS - 20</u> | | 105 | 4,197 | 309,354 | - |
| <u>GARFIELD</u> | | | | | 3 |
| Black Raven | Haas, William, Jr. | 4 | 213 | 3,212 | |
| Four Mile | Four Mile Coal | 2 | 295 | 2,620 | |
| Harvey Gap #3 | Tolley, C. A. & Eileen | 3 | 151 | 1,714 | |
| New Castle-Vulcan | New Castle Coal | 5 | 234 | 4,459 | 1 |
| New South Canon | Bendetti, H. & L. | 3 | 259 | 2,612 | |
| Rex | Prendergast & Son | 3 | 190 | 1,541 | |
| <u>TOTALS - 6</u> | | 20 | 1,342 | 16,158 | - |
| <u>GUNNISON</u> | | | | | 1 |
| Baldwin | Smith, A. G. | 3 | 183 | 1,180 | |
| Bear | Bear Coal | 28 | 152 | 62,715 | 3 |
| Black Beauty | Ellis Coal | 7 | 178 | 12,526 | 1 |
| Edwards | North Fork Coal | 12 | 118 | 15,600 | |
| Hawk's Nest | Champion Coal Mining | 23 | 155 | 27,338 | 3 |
| Nu-Mine #2 | Nu-Mine Coal | 11 | 231 | 18,887 | 2 |
| Ohio Creek #2 | Staples, S. L., Jr. | 2 | 242 | 2,634 | |
| Somerset | Columbia-Geneva Div., U. S. Steel | 98 | 209 | 129,014 | 2 |
| <u>TOTALS - 8</u> | | 184 | 1,468 | 269,894 | 2 |
| | | | | | 11 |

| COUNTY | MINE | COMPANY OR OPERATOR | No. Men Average | Total Days | TONNAGE | ACCIDENTS | |
|--------------------|------------------------|--|--------------------|---------------|---------|-----------|-----------|
| | | | | | | Fatal | Non-Fatal |
| <u>HUERFANO</u> | | | | | | | |
| Black Beauty | Black Hawk #1 | Black Beauty Coal | 4 | 243 | 1,536 | 1 | |
| | Calumet #2 | Blue Blaze Coal | 2 | 43 | 497 | | 1 |
| Gordon | Maitland #1 | Delcarbon Coal | 21 | 144 | 16,319 | | 1 |
| | Maitland #2 | Vista Coal | 7 | 194 | 8,278 | | 3 |
| Major #3 | Major Coal | Red Ash Coal | 6 | 45 | 2,074 | | 2 |
| Morning Glory | Morning Glory Coal | Red Ash Coal | 11 | 91 | 5,854 | | |
| Pioneer (Clstd.) | Major Coal | Major Coal | 5 | 72 | 746 | | |
| Rugby #6 | Rugby Coal | Morning Glory Coal | 11 | 209 | 12,777 | | 1 |
| <u>TOTALS - 10</u> | | | 3 | 38 | 260 | | |
| <u>LA PLATA</u> | | | 3 | 79 | 714 | | |
| Blue Flame | Burnwell #1 | Lobato, Fidel (Hunt, William M. (3½ mo.)) (Pilcher, Oren A. (7 mo.)) | 3 | 64 | 390 | | |
| | Burnwell #2 | Zufelt, Robert L. | 3 | 210 | 3,260 | | 1 |
| Coal King #2 | Pilcher, Oren A. | 2 | 56 | | 365 | | |
| Hay Gulch #2 | Hay Gulch Coal | 1 | 175 | | 1,032 | | |
| Hesperus #4 | Hesperus Coal | 1 | 236 | | 1,403 | | |
| King | King Coal | 3 | 169 | | 2,115 | | |
| Morning Star | Zellitti, F., N., & C. | 4 | 199 | | 5,688 | | |
| Peacock | Peacock Coal | 2 | 196 | | 2,203 | | |
| Peerless | Peerless Coal | 3 | 244 | | 3,253 | | |
| Rasmussen | Rasmussen, William | 1 | 16 | | 64 | | |
| Victory #3 | Victory Coal | 2 | 86 | | 778 | | 1 |
| Wright #1 | Wright Fuel | 6 | 265 | | 11,564 | | |
| <u>TOTALS - 13</u> | | | 2 | 48 | 656 | | |
| | | | 35 | 1,964 | 32,771 | - | 2 |

| | | | | | | | |
|--------------------|----------------------------|-----|-------|----------|---|--|---|
| <u>LAS ANIMAS</u> | | | | | | | |
| Aguilar- Imperial | Montoya Coal | 3 | 170 | 1,710 | 1 | | 7 |
| Allen | C. F. & I. Corporation | 372 | 230 | 761, 571 | | | |
| Anchor #2 | Aragon, Ricardo F. | 2 | 60 | 144 | | | |
| Baldy #2 | Baldy Coal | 3 | 148 | 818 | | | |
| Berwind #4 | de la Rosa, Lorenzo | 3 | 105 | 484 | | | |
| Berwind #5 | Smith Coal | 3 | 201 | 1,706 | | | |
| Berwind Canyon | Berwind Canyon Coal | 4 | 39 | 363 | | | |
| Bisulco | Bisulco Coal | 2 | 39 | 202 | | | |
| Bowman's | Bowman's Coal | 2 | 52 | 191 | | | |
| Brodhead | Brodhead Coal | 2 | 237 | 1,462 | | | |
| Delagua | Joe's Coal | 4 | 257 | 4,397 | | | |
| Engleville | Guadagnoli Brothers | 2 | 173 | 1,185 | | | |
| Grey Creek #4 | Grey Creek Coal | 5 | 160 | 1,030 | | | |
| Hastings #3 | Maschio Coal | 3 | 185 | 1,911 | | | |
| Martinez | Martinez, Albert | 2 | 65 | 143 | | | |
| Montoya #3 | Montoya, Ben & Sam | 2 | 10 | 30 | | | |
| Peacock | Peacock Coal | 4 | 291 | 5,268 | | | |
| Prosperity #2 | Pantazes, Pete | 3 | 231 | 816 | | | |
| Rapson #2 | Rapson Coal | 6 | 249 | 6, 018 | | | |
| Red Glow | Red Glow Coal | 1 | 43 | 40 | | | |
| Starkville #4 | Iuppa, Albert & Son | 9 | 231 | 8,295 | | | |
| Starkville #7 | DiMarco, L. & Alverado, L. | 3 | 23 | 281 | | | |
| <u>TOTALS - 22</u> | | 440 | 3,199 | 798, 065 | 1 | | 8 |

| COUNTY MINE | COMPANY OR OPERATOR | No. Men Average | Total Days | TONNAGE | ACCIDENTS |
|-----------------------|------------------------------|--------------------|---------------|---------|--------------------|
| MINE | | | | | Fatal Non-Fatal |
| <u>MESA</u> | | | | | |
| Blue Flame | Barstow, Aul & Peterson | 3 | 239 | 4,844 | |
| Cameo | Kerr Coal | 55 | 229 | 103,938 | 6 |
| Gearhart | Phillips, H. B. | 5 | 157 | 3,674 | |
| Go-Boy (Winger) | Fontanari, Rudolph & Alta | 4 | 143 | 1,873 | |
| Hy-Grade | Patterson, Mack R. | 4 | 128 | 1,166 | |
| McGinley | Eagle Head Coal | 3 | 178 | 1,847 | |
| Roadside (River View) | Roadside Coal | 4 | 229 | 6,872 | |
| <u>TOTALS - 7</u> | | 78 | 1,303 | 124,214 | - |
| <u>MOFFAT</u> | | | | | 6 |
| Red Wing | Colowyo Coal | 37 | 149 | 116,026 | |
| Taylor | Taylor, Sam | 4 | 70 | 731 | 2 |
| Wise Hill Strip | Wise Hill Coal | 3 | 50 | 500 | |
| <u>TOTALS - 3</u> | | 44 | 269 | 117,257 | - |
| <u>MONTROSE</u> | | | | | 2 |
| Navajo Strip | Edna Coal | 14 | 215 | 89,827 | |
| <u>TOTALS - 1</u> | | 14 | 215 | 89,827 | 1 |
| <u>PITKIN</u> | | | | | 1 |
| Dutch Creek | Mid-Continent Coal & Coke | 70 | 254 | 383,934 | |
| Thompson Creek #1 | Thompson Creek C. & C. Corp. | 77 | 245 | 117,544 | 2 |
| Thompson Creek #2 | Thompson Creek C. & C. Corp. | 18 | 245 | 27,698 | 1 |
| Thompson Creek #3 | Thompson Creek C. & C. Corp. | 33 | 245 | 53,143 | 1 |
| <u>TOTALS - 4</u> | | 198 | 989 | 582,319 | 13 |
| <u>RIO BLANCO</u> | | | | | 23 |
| Rienau | Jenkins & Mathis Coal | 3 | 231 | 6,454 | |
| White River | Staley, C. & Gordon, C. | 4 | 171 | 4,189 | |
| <u>TOTALS - 2</u> | | 7 | 402 | 10,643 | - |

| ROUTT | Sullivan Coal | 4 | 65 | 952 | | |
|----------------------|------------------------------|-------|--------|-----------|---|----|
| Apex | Hayden Coal | 3 | 75 | 1,256 | | |
| Babson | Dry Creek Coal | 16 | 181 | 46,533 | 2 | |
| Cardinal | Edna Coal (9 months) | 38 | 47 | 83,304 | 1 | |
| Edna Strip | P & M Coal Mining (3 months) | 50 | 40 | 69,537 | 1 | |
| Johnnie's | Mathews, John | 2 | 72 | 234 | | |
| Keystone | ROUTT Mining Corporation | 7 | 151 | 4,106 | | |
| Osage Strip (Cldsd.) | P & M Coal Mining | 34 | 176 | 240,333 | 1 | |
| Sun (No Report-Est.) | Sun Coal | 1 | 25 | 100 | | |
| <u>TOTALS</u> - 8 | | 155 | 832 | 446,355 | | 5 |
| WEILD | | | | | | |
| Boulder Valley #3 | Boulder Valley Coal | 47 | 223 | 127,763 | | |
| Eagle | Imperial Coal | 65 | 223 | 269,019 | 1 | |
| Imperial | Imperial Coal | 19 | 115 | 46,452 | 2 | |
| Lincoln | Clayton Coal | 39 | 143 | 102,423 | | |
| Sterling | McNeil Coal Corporation | 27 | 195 | 84,327 | 1 | |
| Washington | Clayton Coal | 58 | 214 | 164,459 | | |
| <u>TOTALS</u> - 6 | | 255 | 1,113 | 794,443 | | 4 |
| GRAND TOTALS - | | | | | | |
| 118 Mines | | 1,657 | 19,695 | 3,700,692 | 5 | 76 |

COAL SHIPMENT AND DISPOSAL

| COUNTY | RAILROAD | TRUCK | POWER &/or HEAT | OUT OF STATE | CHEM. TREATED |
|---------------|--------------------|-----------------|--------------------|-----------------|------------------|
| Delta | 14, 345 | 42, 494 | (At Mine) 205 | 4, 590 | 18, 954 |
| El Paso | | 3, 293 | | | |
| Fremont | 14, 438 | 294, 856 | 60 | 6, 819 | 6, 928 |
| Garfield | | 16, 154 | 4 | | 2, 884 |
| Gunnison | 219, 456 | 50, 188 | 250 | 149, 914 | 46, 170 |
| Huerfano | 7, 824 | 41, 231 | | 13, 656 | 8, 352 |
| La Plata | 12, 220 | 20, 551 | | | 1, 700 |
| Las Animas | 761, 219 | 35, 507 | 1, 339 | 7, 099 | |
| Mesa | | 20, 276 | *103, 938 | | 623 |
| Moffat | 99, 727 | 17, 530 | | | |
| Montrose | | 89, 827 | | | |
| Pitkin | 582, 319 | | | 582, 319 | |
| Rio Blanco | | 10, 640 | 3 | 1, 981 | 5, 476 |
| Routt | 402, 624 | 43, 684 | 47 | 52, 444 | 59, 406 |
| Weld | 499, 671 | 290, 281 | 4, 491 | | 22, 703 |
| TOTALS | 2, 613, 843 | 976, 512 | 110, 337 | 818, 822 | 181, 497 |

*Public Service Power Plant from Cameo, by conveyor - 103874 Tons

SIZES, GRADES, BY COUNTY

| MINE RUN | LUMP | EGG | OTHER GRADES | NUT | PEA | SLACK |
|-------------|----------|----------|--------------|---------|----------|-------------|
| 3, 789 | 12, 613 | 756 | 1, 282 | 3, 618 | 229 | 34, 757 |
| 3, 293 | | | | | | |
| 146, 661 | 27, 161 | 6 | 1, 568 | 9, 722 | 9, 618 | 114, 618 |
| 40 | 2, 320 | | 154 | 1, 639 | | 12, 005 |
| 147, 901 | 25, 878 | 26 | 525 | 5, 571 | | 89, 993 |
| 949 | 7, 452 | 10, 079 | 214 | 5, 017 | 2, 987 | 22, 357 |
| 20, 111 | 3, 982 | 8 | 48 | 515 | 933 | 7, 174 |
| 1, 886 | 5, 165 | 2 | 639 | 318 | 761, 897 | 28, 158 |
| 399 | 2, 642 | | 206 | 873 | 149 | 119, 945 |
| | 14, 701 | | | 21, 810 | | 80, 746 |
| 89, 827 | | | | | | |
| 582, 319 | | | | | | |
| | 1, 167 | 177 | | 1, 317 | | 7, 982 |
| 5, 822 | 25, 326 | 4, 206 | 23, 921 | 9, 055 | 66, 379 | 311, 646 |
| | 48, 834 | 94, 482 | | 1, 943 | 14, 888 | 634, 296 |
| 1, 002, 997 | 177, 241 | 109, 742 | 28, 557 | 61, 398 | 857, 080 | 1, 463, 677 |

MECHANICAL LOADING

| COUNTY | Shaker Type | MECHANICAL LOADERS | | | | | | TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor) | |
|------------|-------------|--------------------|-------------|----------|-------|--------|-------------|---|--|
| | | Chain Conveyors | | Mainline | | Mobile | | | |
| | | Short Face | Room Length | Belt | Chain | Track | Caterpillar | | |
| Delta | 3 | 1 | | | | 3 | 5 | 42,788 | |
| El Paso | | | | | | | | | |
| Fremont | 21 | | 7 | | 1 | 19 | 2 | 220,783 | |
| Garfield | | 2 | | | | | | | |
| Gunnison | 13 | | 1 | 2 | | 11 | | 266,080 | |
| Huerfano | 11 | | 7 | | 1 | | | 16,319 | |
| La Plata | 2 | | | 1 | | | | 5,688 | |
| Las Animas | 3 | 1 | | 12 | 3 | 10 | | 750 | |
| Mesa | 16 | | | | | | 1 | 105,104 | |
| Moffat | | | | | | 4 | | 116,757 | |
| Montrose | | | | | | | | | |
| Pitkin | 22 | 4 | 4 | 6 | | 2 | | | |
| Rio Blanco | 2 | | | | | 2 | | 6,454 | |
| Routt | 5 | | | 1 | | | | 5,058 | |
| Weld | 5 | | | 2 | | 13 | | 26,486 | |
| TOTALS | 103 | 8 | 19 | 24 | 5 | 3 | 66 | 812,267 | |

COLORADO - 1961

| TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES | MINING MACHINERY | | | | | | TOTAL TONNAGE |
|--|------------------|-------------------|--|-----------------|--------------------------|-------------------|------------------|
| | Undercutting | Electric Shearing | Combination Undercutting and Electric Shearing | Electric Drills | Compressed Air Drills | Continuous Miners | |
| | 9 | 2 | 12 | | | | 57, 044 |
| | | | | | | | 3, 293 |
| 48, 917 | 29 | 1 | 39 | | | | 309, 354 |
| | 2 | | 13 | 1 | | | 16, 158 |
| | 28 | 9 | 33 | | | | 269, 894 |
| 25, 306 | 17 | | 17 | 2 | | | 49, 055 |
| 13, 679 | 17 | | 11 | 3 | | | 32, 771 |
| 6, 018 | 11 | 5 | 5 | 12 | 7 | | 798, 065 |
| 10, 546 | 21 | | 19 | 3 | | | 124, 214 |
| | 6 | | 10 | | | | 117, 257 |
| | | | | | | | 89, 827 |
| 198, 385 | | | 29 | 8 | 3 | | 582, 319 |
| 4, 189 | 4 | 1 | 6 | | | | 10, 643 |
| 47, 889 | 12 | 1 | 15 | | | | 446, 355 |
| | 25 | 1 | 50 | | 14 | | 794, 443 |
| 354, 929 | 181 | 1 | 20 | 259 | 29 | 24 | 3, 700, 692 |

Mined and Loaded by Continuous Mining Machines:

Las Animas County - 761, 571

Pitkin County - 383, 934

Weld County - 767, 957

FATAL ACCIDENTS

| Date | Name | Mine | County | Cause | Occupation | Age | Exp. |
|------|---------------|------------|--------|-----------------------------|-------------------------|-----|------|
| 1-14 | L. Chesnik | Somerset | Gunn. | Haulage | Loaderman | 39 | 17 |
| 4-6 | H. V. Pobirk | Somerset | Gunn. | Fall-roof | Loaderman | 33 | 10 |
| 6-14 | Frank Gilmore | Dutch Crk. | Pitkin | Rush of water | Cont. Miner Operator | 27 | 7 |
| 6-21 | George Sutak | Allen | | Las A. Machinery | Rollerman | 50 | 17 |
| 12-7 | Ira T. Brooks | Green Val. | Delta | Haulage | Operator | 63 | 45 |
| | | | | NOT CHARGED TO THE INDUSTRY | | | |
| 8-13 | Frank Perko | Allen | | Las A. Heart Failure | Mechanic | 48 | 27 |

FIVE-YEAR COMPARISON

| NON-FATALS | | | | | Causes of Injury | FATALS | | | | |
|------------|------|------|------|------|---------------------|--------|------|------|------|------|
| 1957 | 1958 | 1959 | 1960 | 1961 | | 1957 | 1958 | 1959 | 1960 | 1961 |
| 9 | 9 | 12 | 15 | 11 | Falls of roof | | 1 | 2 | 1 | 1 |
| 7 | 2 | 6 | 8 | 7 | Fall of face or rib | | | | | |
| 8 | 12 | 7 | 6 | 13 | Falling objects | | | | | |
| 5 | 4 | 4 | 9 | 7 | Falls of persons | | 1 | | | |
| 8 | 11 | 7 | 13 | 17 | Handling materials | | | | | |
| 5 | 6 | 2 | 5 | 1 | Hand tools | | | | | |
| 1 | 3 | 1 | 3 | 1 | Striking vs objects | | | | | |
| 15 | 15 | 9 | 12 | 2 | Haulage | | | | 1 | 2 |
| | | | | 1 | Explosion of gas | | | | | |
| 1 | 1 | 3 | 1 | 1 | Explosives | | | | | |
| | | 1 | | 2 | Electricity | | | | | |
| 14 | 17 | 9 | 4 | 6 | Machinery | | | | | 2 |
| 2 | 4 | 2 | | 7 | Jack pipes | | | | | |
| 1 | | | 1 | | R. R. cars | | | | | |
| | | | 1 | | Others | | | | | |
| 76 | 85 | *63 | 78 | 76 | TOTALS | | 0 | 2 | 2 | 5 |

*Correction

ACCIDENT STATISTICS

| | Fatalities | | Non-Fatals | |
|-------------------------|------------|-----------|------------|--------|
| | 1961 | 1960 | 1961 | 1960 |
| Fatalities | 5 | 2 | | |
| Non-Fatals/Compensable | | | 76 | 78 |
| Per 1,000 employed | 3.02 | 0.98 | 45.86 | 38.03 |
| Men employed per injury | 351 | 1,026 | 21.80 | 26.29 |
| Tonnage per injury | 740,138 | 1,812,286 | 48,693 | 46,469 |
| Per million tons | 1.35 | 0.552 | 20.53 | 21.52 |
| Dependents: | Widows | 2 | | |
| | Children | 5 | | |
| | | 10 | | |

COAL PRODUCTION FROM 1864 THROUGH 1961

| Year | Tonnage | Year | Tonnage | Year | Tonnage |
|------|-----------|------|------------|------|-----------|
| 1864 | 500 | 1897 | 3,565,660 | 1930 | 8,238,094 |
| 1865 | 1,200 | 1898 | 4,174,037 | 1931 | 6,604,063 |
| 1866 | 6,400 | 1899 | 4,826,939 | 1932 | 6,616,525 |
| 1867 | 17,000 | 1900 | 5,495,734 | 1933 | 5,284,872 |
| 1868 | 10,500 | 1901 | 6,021,405 | 1934 | 5,251,003 |
| 1869 | 8,000 | 1902 | 7,522,923 | 1935 | 5,953,601 |
| 1870 | 4,500 | 1903 | 7,775,302 | 1936 | 6,868,801 |
| 1871 | 15,600 | 1904 | 6,776,551 | 1937 | 7,222,092 |
| 1872 | 68,540 | 1905 | 8,989,631 | 1938 | 5,730,291 |
| 1873 | 69,997 | 1906 | 10,308,421 | 1939 | 6,002,125 |
| 1874 | 77,372 | 1907 | 10,965,640 | 1940 | 6,673,359 |
| 1875 | 95,838 | 1908 | 9,773,007 | 1941 | 7,008,037 |
| 1876 | 117,666 | 1909 | 10,722,490 | 1942 | 8,131,764 |
| 1877 | 160,000 | 1910 | 12,104,887 | 1943 | 8,372,683 |
| 1878 | 200,630 | 1911 | 10,197,595 | 1944 | 8,202,401 |
| 1879 | 322,732 | 1912 | 11,016,948 | 1945 | 7,656,612 |
| 1880 | 375,000 | 1913 | 9,268,939 | 1946 | 5,928,823 |
| 1881 | 706,744 | 1914 | 8,201,423 | 1947 | 6,381,016 |
| 1882 | 1,161,479 | 1915 | 8,715,397 | 1948 | 5,682,512 |
| 1883 | 1,220,593 | 1916 | 10,522,185 | 1949 | 4,578,170 |
| 1884 | 1,130,024 | 1917 | 12,515,305 | 1950 | 4,274,887 |
| 1885 | 1,398,796 | 1918 | 12,658,055 | 1951 | 4,111,945 |
| 1886 | 1,436,211 | 1919 | 10,406,543 | 1952 | 3,643,523 |
| 1887 | 1,791,735 | 1920 | 12,514,693 | 1953 | 3,598,867 |
| 1888 | 2,185,477 | 1921 | 9,141,947 | 1954 | 2,922,365 |
| 1889 | 2,400,629 | 1922 | 10,003,610 | 1955 | 3,366,490 |
| 1890 | 3,075,781 | 1923 | 10,336,735 | 1956 | 3,303,661 |
| 1891 | 3,512,632 | 1924 | 10,501,088 | 1957 | 3,324,787 |
| 1892 | 3,771,234 | 1925 | 10,440,387 | 1958 | 2,972,191 |
| 1893 | 3,947,056 | 1926 | 10,616,760 | 1959 | 3,293,686 |
| 1894 | 3,021,028 | 1927 | 9,781,580 | 1960 | 3,624,572 |
| 1895 | 3,339,495 | 1928 | 9,921,585 | 1961 | 3,700,692 |
| 1896 | 3,371,633 | 1929 | 9,934,064 | | |







